

IN THE CLAIMS:

Please amend the claims to read:

Claims 1-7. (Canceled)

8. (Withdrawn) The use of a mutated cell from a library according to claim 29 to generate a non-human transgenic animal.

Claims 9-28. (Canceled)

29. (Currently amended) A library of cultured eucaryotic cells comprising at least two subpopulations of cells, wherein the at least two subpopulations of cells comprises

(a) a first subpopulation of cells, wherein cells of the first subpopulation have a first vector integrated nonspecifically into their genomes, wherein the first vector mediates the splicing of a foreign exon internal to a cellular transcript, and wherein the first vector comprises:

(i) a foreign exon,

(ii) a splice acceptor site operatively positioned 5' to said foreign exon,

and

(iii) a splice donor site operatively positioned 3' to said foreign exon,

wherein the first vector does not comprise a promoter operatively positioned 5' to said foreign exon; and

(b) a second subpopulation of cells, wherein cells of the second subpopulation have a second vector integrated nonspecifically into their genomes, wherein the second vector mediates the splicing of a foreign exon 5' to an exon of a cellular transcript, and wherein the second vector comprises:

(i) a foreign exon,

(ii) a promoter operatively positioned 5' to said foreign exon,

(iii) a splice donor site operatively positioned 3' to said foreign exon; and

(iv) a mutagenic foreign polynucleotide sequence located upstream from

said promoter.

30. (Previously presented) The library of claim 29 wherein said cultured eucaryotic cells are animal cells.

31. (Previously presented) The library of claim 30 wherein said cultured eucaryotic cells are mammalian cells.

32. (Previously presented) The library of claim 31 wherein said cultured eucaryotic cells are rodent cells.

33. (Previously presented) The library of claim 32 wherein said cultured eucaryotic cells are mouse cells.

34. (New) The library of claim 29, wherein said cultured eucaryotic cells are organized into individual clones.